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No. XII.

BED FOR INVALIDS.

The LARGE SILVER MEDAL *was voted to* J. C. JERRARD, *Esq., of Honiton, Surgeon, for his Bed for Invalids; a Model of which has been placed in the Society's Repository.*

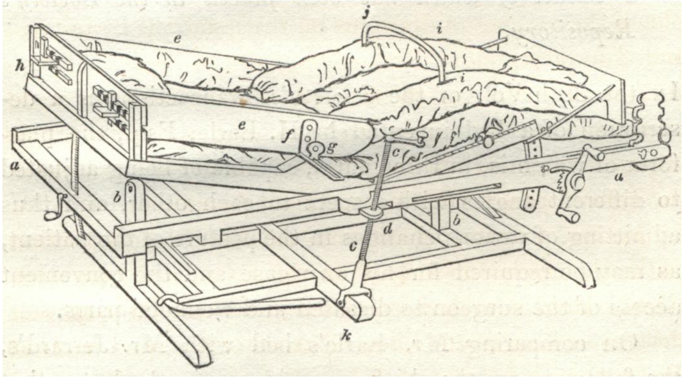
IN the 39th Vol. of the Society's Transactions is a description of a bed invented by H. Earle, Esq., the platform of which is, in three parts, capable of being adjusted to different angles with respect to each other, and thus admitting of various changes in the posture of the patient, as may be required for his own ease and the convenient access of the surgeon to diseased and wounded parts.

On comparing Mr. Earle's bed with Mr. Jerrard's, the following are the chief conveniences in the latter that require notice.

The frame *a a* is mounted so as to turn on pins in the standards *b b* either to the right or left; and this lateral motion is given to it in a very safe and gradual manner by means of the long screw *c c*, which works in the screwed hole *d* fixed to one side of the frame. Thus the frame may be placed either horizontally, or inclined at any angle towards either side.

Previous to tilting the bed-frame, the patient is secured from slipping or rolling by means of cushioned side-boards *e e*, which may be fixed close to the patient's side by the elbow-slide *f* and its binding screw *g*, and by pegs which fit into the holes made through the head-board. Two long bolsters *i i* are also placed between the legs, and are kept in their places by the wire arch *j*, the pointed ends of which pass through the bolsters into the mattress. Another advantage of this arch is, that it protects the patient from pressure of the bed-clothes.

The position of a chair is given to the bed by lifting up the head-end of the frame *a*: in so doing, the two arms of the wire *k* drop down and support what now is the back of the chair.



No. XIII.

DIVIDING ENGINE.

The GOLD ISIS MEDAL *and* FIFTY GUINEAS *were presented to Mr.* ANDREW ROSS, *Mathematical Instrument Maker, of* 15, *St. John's Square, for his improved Method of dividing Astronomical and Mathematical Instruments, and for his Circular Dividing Engine. The following Communication has been received from Mr. Ross relative to his Invention.*

AMONG the arts which are necessary to produce accurate astronomical and mathematical instruments, that of di-